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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brown et al.

Attorney Docket No. ROYG-1-1001

Serial No.: 09/633,633

Group Art Unit: 2762

Filing Date: August 7, 2000

Examiner: Greg Morse

Title: MOTION CONTROL AND SYSTEM METHOD

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER OF PATENTS:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information related to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

Because of their bulk, copies of references listed on the attached Form PTO-1449 are not enclosed. The references were originally mailed to the US Patent Office on June 6, 2002, but the transmittal letter inadvertently referenced incorrect attorney docket number ROYG-1-1002 and application serial number 08/944,529, and the copies of the references were apparently routed to that file. We understand that you do not want an additional copy of these voluminous references. Nonetheless, if you would prefer to receive an additional copy, please let us know.

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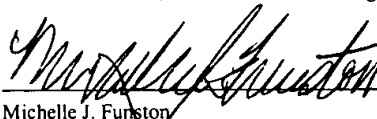
Respectfully submitted,
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Lawrence D. Graham
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I hereby certify that this communication is being deposited with the United States Postal Service via first class mail under 37 C.F.R. § 1.08 on the date indicated below addressed to: Commissioner for Patents, Attn: Examiner Greg Morse, Art Unit 2762, Washington D.C. 20231.

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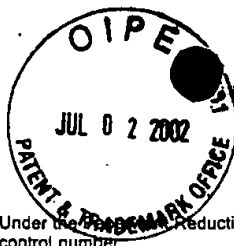
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Substitute for form 1449A/PTO		Complete if Known	
		Application Number	09/633,633
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	August 7, 2000
		First Named Inventor	Brown, et al.
		Art Unit	2762
		Examiner Name	
		Attorney Docket Number	ROYG-1-1001
Sheet	1	of	7

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
	U29	US-	4,159,417	06/26/1979	Rubincam, David P.	
	U30	US-	4,418,381	11/29/1983	Molusis et al.	
	U31	US-	4,713,808	12/15/1987	Gaskill et al.	
	U32	US-	4,767,334	08/30/1988	Throne et al.	
	U33	US-	4,809,335	02/28/1989	Rumsey	
	U34	US-	4,840,602	01/20/1989	Rose	
	U35	US-	4,846,693	07/11/1989	Baer	
	U36	US-	4,855,725	08/08/1989	Fernandez	
	U37	US-	4,857,030	08/15/1989	Rose	
	U38	US-	4,887,966	12/19/1989	Gellerman	
	U39	US-	4,897,835	01/30/1990	Gaskill et al.	
	U40	US-	5,120,065	06/09/1992	Driscoll et al.	
	U41	US-	5,168,441	12/01/1992	Onarheim et al.	
	U42	US-	5,377,258	12/27/1994	Bro	
	U43	US-	5,392,207	02/21/1995	Wilson et al.	
	U44	US-	5,402,518	03/28/1995	Lowery	
	U45	US-	5,412,757	05/02/1995	Endo	
	U46	US-	5,450,079	09/12/1995	Dunaway	
	U47	US-	5,465,215	11/07/1995	Strickland et al.	
	U48	US-	5,493,281	02/20/1996	Owens	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	F04	Japanese 59-228473		06/09/1983		
	F05	EP 0 275 826 A1		07/27/1988	CIBA-GEIGY AG	
	F08	EP 0 442 676 A2		08/21/1991	IBM	
	F07	GB 2 244 896 A		12/11/1991	AG (Patents) Ltd.	
	F08	WO 92/11731		07/09/1992	Eastman Kodak	
	F09	EP 0 281 427 B1		08/05/1992	Pierce et al.	
	F10	EP 508 912 A1		10/14/1992	Info Telecom	
	F11	WO 93/08654		04/29/1993	Forte Communications	
	F12	EP 0 583 908 A2		02/23/1994	IBM	
	F13	WO 95/07504		03/16/1995	murco Communications	

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Sheet	3	of	7
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Application Number	09/633,633
Filing Date	August 7, 2000
First Named Inventor	Brown et al.
Art Unit	2762
Examiner Name	
Attorney Docket Number	ROYG-1-1001

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		Number- Kind Code ² (if known)			
	U69	US- 5,821,987	10/13/1998	Larson	
	U70	US- 5,822,207	10/13/1998	Hazama et al.	
	U71	US- 5,828,575	10/27/1998	Sakai	
	U72	US- 5,846,132	12/08/1998	Junkin	
	U73	US- 5,852,441	12/22/1998	Nakajima et al.	
	U74	US- 5,855,483	01/05/1999	Collins et al.	
	U75	US- 5,867,385	02/02/1999	Brown et al.	
	U76	US- 5,873,765	02/23/1999	Rifkin et al.	
	U77	US- 5,890,963	04/06/1999	Yen	
	U78	US- 5,907,831	05/25/1999	Lotvin et al.	
	U79	US- 5,920,476	07/06/1999	Hennessey et al.	
	U80	US- 5,924,013	07/13/1999	Guido et al.	
	U81	US- 5,960,085	09/28/1999	de la Huerga	
	U82	US- 5,977,951	11/02/1999	Danieli et al.	
	U83	US- 6,078,968	06/20/00	Lo et al.	
	U84	US- 6,101,425	08/08/2000	Govindaraj et al.	
	U85	US- 6,139,177	10/31/2000	Venkatraman et al.	
	U86	US- 6,144,895	11/07/2000	Govindaraj et al.	
	U87	US- 6,209,037	03/27/2001	Brown et al.	
	U88	US- 6,216,173	04/10/2001	Jones et al.	

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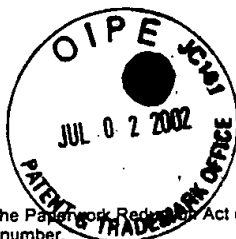
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	09/633,633
		Filing Date	August 7, 2000
		First Named Inventor	Brown, et al.
		Group Art Unit	2762
		Examiner Name	
Sheet 4 of 7	Attorney Docket Number	ROYG-1-1001	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	017	WRIGHT et al.; "Open Architecture Manufacturing: The Impact of Open-System Computers on Self-Sustaining Machinery and Machine Tool Industry"; 7 pages; pp.	
	018	ALTINTAS et al.; "Design and Analysis of a Modular CNC System"; pub. 3/4/90; 12 pages; Elsevier Science Publishers; pp. 305-316.	
	019	ROBERT ANDERSON; "SMART: A Modular Architecture for Robotics and Teleoperation"; pub. 1993; IEEE; 6 pages; pp. 416-421.	
	020	MICROSOFT; "Object Linking and Embedding 2.0 Backgrounder"; pub. 9/93; 15 pages; pp. 1-15.	
	021	MICROSOFT; "Microsoft OLE Today and Tomorrow: Technology Overview"; pub. 12/93; 9 pages; pp. 1-9.	
	022	PRITSCHOW et al.; "Open System Controllers - A Challenge for the Future of the Machine Tool Industry"; pub 1/14/93; CIRP; 4 pages; pp. 449-452.	
	023	WEB 3.0 Product Brochure; Trihedral Engineering Ltd.; pub. 1994; 6 pages.	
	024	CHEN et al.; "Computer Numerical Control: Essentials in Programming and Networking"; pub. 1994; Delmar Publishers, Inc.; 28 pages; Part 5, Chapter 27; pp. 824-848.	
	025	CHU et al.; "Development of a Practical SFC System for CNC Machine Shop"; pub. 1994; 5 pages; 362-367.	
	026	MICROSOFT; "The Microsoft Object Technology Strategy"; pub. 3/94; 33 pages; pp. 1-33.	
	027	MICROSOFT; "Open Systems: Technology Leadership and Collaboration"; pub. 3/94; 15 pages; pp. 1-15.	

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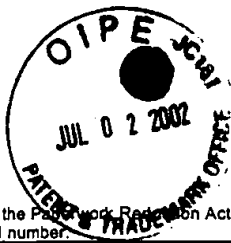
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/633,633		
		Filing Date	August 7, 2000		
		First Named Inventor	Brown, et al.		
		Group Art Unit	2762		
		Examiner Name			
Sheet	5	of	7	Attorney Docket Number	ROYG-1-1001

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	028	WILLIAM F. FORD; "What is an Open Architecture Robot Controller?"; pub. 8/16/94; IEEE Control Systems Society; 6 pages; pp. 27-32.	
	029	"Requirements of Open, Modular Architecture Controllers for Applications in the Automotive Industry"; pub. 12/13/94; Version 1.1; 13 pages; pp. 1-13.	
	030	FEDROWITZ; "IRL-Based Expansion of the Commonly Used High-Level Language C for Robot Programming"; pub. 10/95; 5 pages.	
	031	JOHN JACKMAN; "Robotic Control Using Sequential Function Charts"; pub. 1996; SPIE; 9 pages; pp. 120-128.	
	032	MCGRAW et al.; "A Friendly Command, Control, and Information System for Astronomy"; pub. 1996; ASP Conference Series; 12 pages; pp. 356-367.	
	033	PROCTOR et al.; "Validation of Standard Interfaces for Machine Control"; pub. 1996; 6 pages; pp. 659-664.	
	034	SPERLING et al.; "Enabling Open Control Systems - An Introduction to the OSACA System Platform"; pub. 5/96; 8 pages; pp.1-8.	
	035	"NEMI Low Cost Controller Project"; pub. 12/96; NEMI; 392 pages; pp. 1-392.	
	036	"Technologies Enabling Agile Manufacturing (TEAM) Intelligent Closed Loop Processing"; pub. 1/11/96; 30 pages; pp.1-30.	
	037	"Open, Modular Architecture Controls at GM Powertrain - Technology and Implementation"; pub. 5/14/96; Version 1.0; GM Powertrain Group Manufacturing Engineering Controls Council; 39 pages; pp. 1-39.	
	038	MARCOS et al.; "A New Solution for Integrating Control Devices Involved in Computer Integrated Manufacturing"; pub. 9/2/96; IEE; 6 pages; pp. 485-490.	

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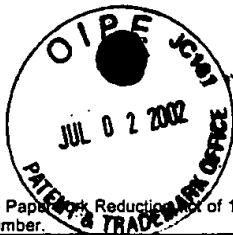
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Sheet	6	of	7	Examiner Name	
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	039	PROCTOR et al.; "Open-Architecture Controllers"; pub. 6/97; IEEE; 5 pages; pp. 60-64.	
	040	SZABO et al.; "Validation Results of Specifications for Motion Control Interoperability"; pub. 9/97; 11 pages; pp. 166-176.	
	041	FENG et al.; "Distributed Control of a Multiple Tethered Mobile Robot System for Highway Maintenance and Construction"; pub. 11/97; 10 pages; pp. 383-392.	
	042	LUTZ et al.; "OSACA - The Vendor Neutral Control Architecture"; pub. 12/97; 10 pages.	
	043	SPERLING et al.; "Designing Applications for an OSACA Control"; pub. 11/16/97; 5 pages.	
	044	CHANG et al.; "Development and Implementation of An Application of an Application Programming Interface for PC/DSP Based Motion Control System"; Pub. 1998; 12 pages; p. 94-105.	
	045	MORALES et al.; "A Generalised Software Control System for Industrial Robots"; pub. 1998; AMC; 6 pages; pp. 411-416.	
	046	MUIR et al.; "A Three-Layer Workcell Control Architecture Design"; pub. 5/98; IEEE; 7 pages; pp. 1185-1191.	
	047	MUIR et al.; "Mechatronic Objects for Real-Time Control Software Development"; pub. 11/98; SPIE; 15 pages; pp. 251-265.	
	048	LEU et al.; "A Telemanufacturing Workcell Over the Internet"; pub. 11/98; SPIE; 8 pages; pp. 230-237.	
	049	MICHALOSKI et al.; "A Framework for Component-Based CNC Machines"; pub. 11/98; SPIE; 12 pages; pp. 132-143.	

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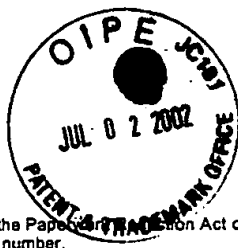
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	050	EMILIO MORALES; "GENERIS: The EC-JRC Generalised Software Control System for Industrial Robots"; pub. 1998; University Press; Volume 26; 7 pages; pp. 26-33.	
	051	MIZUKAWA et al.; "De-Facto Standard API for Open and Networked Industrial Robots"; pub. 10/99; 8 pages; pp. 455-462.	
	052	CHO et al.; "A Compact/Open Network-Based Controller Incorporating Modular Software Architecture for a Humanoid Robot"; pub. 4/19/99; Kluwer; 15 pages; pp. 341-355.	
	053	NILSSON et al.; "Integrated Architecture for Industrial Robot Programming and Control"; pub. 5/20/99; Elsevier Science B.V.; 22 pages; pp. 205-226.	
	054	VALERA et al.; "Interactive On-Line Evaluation of Robot Motion Control"; pub. 8/2/99; IEEE; 5 pages; pp. 1039-1043.	
	055	NATALE et al.; "Robust Hybrid Force / Position Control with Experiments on an Industrial Robot"; pub. 9/19/99; 5 pages; pp. 956-961.	
	056	MIZUKAWA et al.; "ORiN: Open Robot Interface for the Network, A Proposed Standard"; pub. 5/00; MCB University Press; 7 pages; pp. 344-350.	
	057	EROL et al.; "Open System Architecture Modular Tool Kit for Motion and Machine Processing Control"; pub. 9/00; IEEE/ASME; 11 pages; pp. 281-291.	
	058	GE et al.; "A One-Stop Solution in Robotic Control System Design"; pub. 9/00; IEEE; 14 pages; pp. 42-55.	

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